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Claims

- A process for the distillation of vinylaromatic monomers in the presence of 4-tert-butylcatechol (TBC) and oxygen, where-5 in no aromatic nitro or amino compound is present in any effective amount.
- A process as defined in claim 1, wherein the vinylaromatic monomer used is styrene. 10
 - A process as defined in claim 1 or claim 2, wherein 4-tertbutylcatechol is fed to the distillation apparatus concurrently with the vinylaromatic monomer, the concentration of 4-tert-butylcatechol in the distillation bottoms being in the range of from 200 to 15,000 ppm based on the vinylaromatic monomer.
- A process as defined in any of claims 1 to 3, wherein the vacuum distillation is carried out at temperatures ranging 20 from 40° to 125°C.
- A process as defined in any of claims 1 to 4, wherein an oxygen-containing gas is metered into the distillation bottoms 25 through a gas spray.
- A process as defined in any of claims I to 5, wherein an oxygen-containing gas is metered in on the suction side of a circulating pump mounted upstream of the distillation assembly. 30
 - A process as defined in any of claims 1 to 6, wherein the oxygen is fed in at a rate of from 0.01 to 0.5 wt%, based on the weight of vinylaromatic monomer.

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